

✓  
L1 ANSWER 23 OF 72 CA COPYRIGHT 2004 ACS on STN  
AN 111:196953 CA  
ED Entered STN: 25 Nov 1989  
TI Fire-resistant silicate coatings for wood and other combustible materials  
IN Gilmour, Norman Thomson  
PA D. J. Mine Services (Pty.) Ltd., S. Afr.  
SO S. African, 8 pp.  
CODEN: SFXXAB

DT Patent  
LA English  
IC ICM C09D  
CC 42-10 (Coatings, Inks, and Related Products)  
Section cross-reference(s): 43

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	ZA 8803814	A	19890426	ZA 1988-3814	19880527
PRAI	ZA 1987-2667		19870414		

AB The title coatings, useful on mine timbers, contain Na silicate 70, BaSO<sub>4</sub> 10, bentonite 3.2, **unexpanded vermiculite** 4, expanded vermiculite 8, wetting agents 0.8, and mineral fibers 4%. The liq. and dry ingredients are mixed, optionally with water, shortly before application.

ST silicate fireproof coating wood; mine timber fireproof coating; barium sulfate fireproof coating; bentonite fireproof coating; vermiculite fireproof coating; mineral fiber fireproof coating

IT Bentonite, uses and miscellaneous

Kaolin, uses and miscellaneous

RL: USES (Uses)

(in fireproof coatings)

pbw  
Na silicate 70  
Ba SO<sub>4</sub> 10  
Bentonite 3.2

Unexp. Vermiculite 4

Exp. Vermiculite 8

Wetting agents 0.8

Claims 16, 17,

19, 22, 23, 24, 27, 28, 29,

30, 31, 33, 34, 35, 37, 38, 39

40, 41, 42, 43, 48

hydraulic mat'l is → Na silicate